

S/N 10/099865



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	William C. Lincoln et al.	Examiner:	Scott M. Getzow
Serial No.:	10/099,865	Group Art Unit:	3762
Filed:	March 13, 2002	Docket:	279.424US1
Title:	CARDIAC RHYTHM MANAGEMENT SYSTEM AND METHOD USING TIME BETWEEN MITRAL VALVE CLOSURE AND AORTIC EJECTION		

---

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No :10/099865

Filing Date: March 13, 2002

Title: CARDIAC RHYTHM MANAGEMENT SYSTEM AND METHOD USING TIME BETWEEN MITRAL VALVE CLOSURE AND AORTIC EJECTION.

Page 2  
Dkt: 279.424US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

WILLIAM C. LINCOLN ET AL.

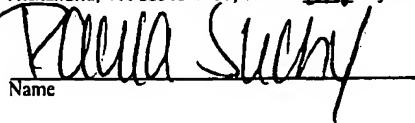
By their Representatives,

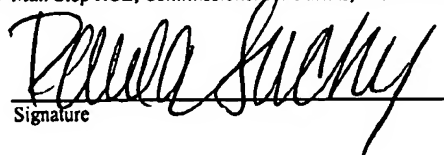
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 373-6951

Date May 27, 2004

By   
Suneel Arora  
Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 27 day of May, 2004.

  
Name

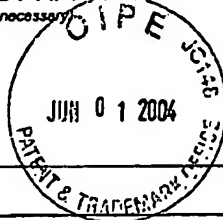
  
Signature

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/099865
Filing Date	March 13, 2002
First Named Inventor	Lincoln, William
Group Art Unit	3762
Examiner Name	Getzow, Scott

Sheet 1 of 3

Attorney Docket No: 279.424US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-2002-0143264-A1	10/03/2002	Ding, Jiang , et al.	600	510	12/06/2001
	US-2003-0097158-A1	05/22/2003	Belalcazar, Hugo A.	607	32	11/16/2001
	US-2003-0105496-A1	06/05/2003	Yu, Y., et al.	607	17	12/05/2001
	US-5,168,869	12/08/1992	Chirife, R.	128	419 PG	06/17/1991
	US-5,334,222	08/02/1994	Salo, Rodney W., et al.	607	17	11/03/1992
	US-5,540,727	07/30/1996	Tockman, Bruce A., et al.	607	18	11/15/1994
	US-5,549,650	08/27/1996	Bornzin, , et al.	607	24	06/13/1994
	US-5,554,177	09/10/1996	Kieval, Robert S., et al.	607	17	03/27/1995
	US-5,562,711	10/08/1996	Yerich, C. G., et al.	607	17	11/30/1994
	US-5,578,064	11/26/1996	Prutchi, D.	607	19	08/11/1994
	US-5,584,868	12/17/1996	Salo, Rodney W., et al.	607	17	07/27/2004
	US-5,609,612	03/11/1997	Plicchi, Gianni, et al.	607	17	12/13/1995
	US-5,628,777	05/13/1997	Moberg, S. B., et al.	607	122	07/14/1993
	US-5,674,256	10/07/1997	Carlson, Gerrard M.	607	17	12/19/1995
	US-5,700,283	12/23/1997	Salo, Rodney W.	607	17	11/25/1996
	US-5,800,471	09/01/1998	Baumann, Lawrence S.	607	25	10/20/1997
	US-5,836,987	11/17/1998	Baumann, Lawrence S., et al.	607	17	03/12/1997
	US-6,058,329	05/02/2000	Salo, Rodney W., et al.	607	17	05/07/1999
	US-6,070,100	05/30/2000	Bakels, Arnoldus, et al.	607	9	12/15/1997
	US-6,144,878	11/07/2000	Schroeppel, E. A., et al.	600	515	01/05/1900
	US-6,144,880	11/01/2000	Ding, et al.	607	23	05/08/1998
	US-6,208,901	03/27/2001	Hartung, W.	607	23	03/03/1998
	US-6,223,082	04/24/2001	Bakels, Arnoldus, et al.	607	17	01/28/2000
	US-6,280,389	08/28/2001	Ding, Jiang, et al.	600	485	11/12/1999
	US-6,371,922	04/16/2002	Baumann, L. S., et al.	600	485	04/07/2000
	US-6,597,951	07/22/2003	Kramer, Andrew, et al.	607	9	11/27/2001

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/099865
Filing Date	March 13, 2002
First Named Inventor	Lincoln, William
Group Art Unit	3762
Examiner Name	Getzow, Scott

Sheet 2 of 3

Attorney Docket No: 279.424US1

US-6,665,564	12/16/2003	Lincoln, William C., et al.	607	17	05/21/2001
--------------	------------	-----------------------------	-----	----	------------

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
	DE-19720755	11/12/1998	Christiansen, H.	A61N	1/37	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Noninvasive MIKRO-TIP Pulse Pressure Transducer Model SPT-301", Millar Instruments, Inc., Product Information, (2000), 1 pg.	
		ADOLPH, ROBERT J., et al., "Prolongation of Isovolumic Contraction Time in Left Bundle Branch Block", American Heart Journal, 78, (1969), 585-591	
		CAZEAU, S., et al., "Multisite stimulation of correction of cardiac asynchrony", Heart, 84, (2000), 579-581	
		DUNCAN, SR., ALISON M., et al., "The Effect of Biventricular Pacing on Ejection and Filling Hemodynamics in Dilated Cardiomyopathy Patients With Activation Disturbances: The MUSTIC Study", JACC, Abstracts Poster Session 1167-56, (2001), 1 pg.	
		HIRSCHFELD, STEPHEN, et al., "The Isovolumic Contraction Time of the Left Ventricle - An Echographic Study", Circulation, 54, (1976), 751-756	
		KASS, DAVID A., "Improved Left Ventricular Mechanics From Acute VDD Pacing in Patients with Dilated Cardiomyopathy and Ventricular Conduction Delay", Circulation, 99(12), (March 30, 1999), 1567-1573	
		KOSTIS, J. B., "Mechanisms of heart sounds", American Heart Journal, 89 (4), Letter to the Editor, (April 1975), 546-547	
		KRAMER, ANDREW P., "AUTOMATIC SELECTION FROM MULTIPLE CARDIAC OPTIMIZATION PROTOCOLS", Application Serial No. 10/624,458, Filing Date: July 21, 2003 Attorney Docket No. 279.340US3, 49	✓
		LEONELLI, F. M., et al., "Systolic and Diastolic Effects of Variable Atrioventricular Delay in Patients With Complete Heart Block and Normal Ventricular Function", The American Journal of Cardiology, 80(3), (August 1997), 294-298	
		LITTLE, WILLIAM C., "The Left Ventricular dP/dtmax-End-Diastolic Volume Relation in Closed-Chest Dogs", Circulation Research, 56, (1985), 808-815	
		RITTER, P., et al., "A Built-In System Based on the Peak Endocardial Acceleration (PEA) for AV-Delay Optimization in DDDR Pacing", Pace -- Pacing and Clinical Electrophysiology, No. 5, Futura Publishing Company, Inc., (May 1997), 1567	
		RITTER, P., et al., "Determination of the optimal atrioventricular delay in DDD pacing. Comparison between echo and peak endocardial acceleration measurements", Europace, 1(2), (April 1999), 126-130	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

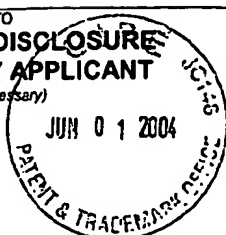
\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/099865
Filing Date	March 13, 2002
First Named Inventor	Lincoln, William
Group Art Unit	3762
Examiner Name	Getzow, Scott

Sheet 3 of 3

Attorney Docket No: 279.424US1

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		RITTER, P., et al., "New Method for Determining the Optimal Atrio-Ventricular Delay in Patients Paces in DDD Mode for Complete Atrio-Ventricular Block", <u>Pace</u> , 18, Abstract No. 237, (April 1995), 855	
		SPODICK, D. H., et al., "Isovolumetric contraction period of the left ventricle. Results in a normal series and comparison of methods of calculation by atraumatic techniques", <u>American Heart Journal</u> , 76(4), (October 1968), 498-503	
		TEI, C., et al., "New index of combined systolic and diastolic myocardial performance: a simple and reproducible measure of cardiac function--a study in normals and dilated cardiomyopathy", <u>Journal of Cardiology</u> , 26(6), (December 1995), 357-66	
		WAIDER, W., et al., "First heart sound and ejection sounds. Echocardiographic and phonocardiographic correlation with valvular events", <u>The American Journal of Cardiology</u> , 35(3), (March 1975), 346-356	
		WEISSLER, A. M., "Systolic Time Intervals in Heart Failure in Man", <u>Circulation</u> , 37, (1968), 149-159	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached